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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/354,945 | 07/15/1999 | AKIO KOSAKA | 09952/029001 | 5787 |

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EXAMINER

CRAVER, CHARLES R

ART UNIT PAPER NUMBER

2685

DATE MAILED: 04/02/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/354,945

Applicant(s)
Kosaka

Examiner
Charles Craver

Art Unit
2685



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on Jan 15, 2002

2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-14 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1-14 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

9) ☒ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) ☒ All b) ☐ Some* c) ☐ None of:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

15) ☒ Notice of References Cited (PTO-892)

18) ☐ Interview Summary (PTO-413) Paper No(s). _____

16) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)

19) ☐ Notice of Informal Patent Application (PTO-152)

17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____

20) ☐ Other: _____

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DETAILED ACTION

Claim Objections

1. Claims 6 and 13 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of previous claims 1 and 8, respectively. Please note the limitation in claims 6 and 13 which states that the speed setting means decreases the communication speed as the remaining power detected decreases, which is essentially the same as that stated in claims 1 and 8, where it is stated that the speed setting means for setting different communication speeds decreases the speeds as the detected remaining power decreases.

Correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claim 11 recites the limitation "the received images" in line 3. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

6. Claims 1, 5, 6, 8, 12 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakaya et al.

Regarding claims 1 and 8,

Nakaya discloses a radio communication terminal (100) having a battery (127) comprising power detecting means (131) for detecting remaining battery power (col 4 lines 50-57), speed setting means (133, col 4 lines 57-61) for setting different data rates for which the terminal is able to communicate based on the remaining power (col 3 lines 11-25), the speed decreasing as the power decreases (col 3 lines 25-28, col 8 line 31-col 9 line 26), and control means (110) for controlling data communications at said speeds (col 4 lines 55-61).

Regarding claims 5 and 12,

Nakaya discloses a radio communication terminal (100) having a battery (127) comprising image communicating means (112, 123, 125), power detecting means (131) for detecting remaining battery power (col 4 lines 50-57),

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means to change resolution based on the battery, and that the resolution is directly proportional to the battery charge (i.e. increases with charge, col 5 line 28-col 6 line 29)

speed setting means (133, col 4 lines 57-61) for setting different data rates for which the terminal is able to communicate based on the remaining power (col 3 lines 11-25), the speed decreasing as the power decreases (col 3 lines 25-28, col 8 line 31-col 9 line 26), and

control means (110) for controlling data communications at said speeds (col 4 lines 55-61).

Regarding claim 6 and 13,

Nakaya further discloses

image communicating means (112, 123, 125),

display means (103) for displaying received images,

means for inhibiting image transmission based on the remaining detected power, specifically, if detected power is below a threshold, after which the reception means may continue to receive (col 8 lines 30-66). In such a case, the latest received image would inherently be displayed at such a time.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 2-4, 7, 9-11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakaya in view of Flynn.

Regarding claims 2 and 9,

Nakaya discloses a radio communication terminal (100) having a battery (127) comprising power detecting means (131) for detecting remaining battery power (col 4 lines 50-57), speed setting means (133, col 4 lines 57-61) for setting different data rates for which the terminal is able to communicate based on the remaining power (col 3 lines 11-25, col 8 line 31-col 9 line 26), and

control means (110) for controlling data communications at said speeds (col 4 lines 55-61).

Nakaya does not disclose means for detecting an external power supply (charger).

Flynn discloses the utility of providing battery charging means to a portable device with battery power-level based control (col 7 lines 16-22, col 8 lines 13-30, col 10 lines 8-42), inherently comprising means to detect the presence of the charging means.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to add a charger to Nakaya. This feature would alleviate the need to constantly replace batteries, saving the user money, and was notoriously well known to anyone of ordinary skill in the art as an obvious improvement in portable battery-powered communication devices. Such a

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charging step would thus increase the power in the battery, and increase the data rate accordingly, based on the teachings of Nakaya.

Regarding claims 3 and 10,

Nakaya further discloses image transmitting means (112), including means to change resolution based on the battery (and thus the charging, col 5 line 28-col 6 line 29).

Regarding claims 4 and 11,

Nakaya further discloses a display (103), and discloses the utility of darkening a display if the battery remaining power drops below a threshold (col 2 lines 7-15); as such, in the combined invention of Nakaya and Flynn, in the case the charger is plugged in and detected and power flows to the battery causing the remaining power to again surpass said threshold, the display would then be relit.

Regarding claims 7 and 14,

Nakaya further discloses power detecting means (131) for detecting remaining battery power (col 4 lines 50-57). In such a case that the charging means of Flynn is not connected to the device, power would not be replenished, and as such the battery power level would decrease; thus, in such a case, the speed setting means would begin the process of decreasing the communication speed.

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Response to Arguments

9. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gray et al discusses a controllable mobile station based on power states.

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

12. **Any response to this action should be mailed to:**

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Or:

(703) 872-9314 (for informal or draft communications, please label "PROPOSED"
or "DRAFT")

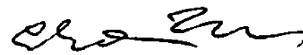
Hand delivered responses should be brought to Crystal Park II, 2121 Crystal
Drive, Arlington VA, sixth floor (receptionist).

13. Any inquiry concerning this communication or earlier communications from the examiner
should be directed to Charles Craver whose telephone number is (703) 305-3965.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,
Ed Urban, can be reached on (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding
should be directed to the Group receptionist whose telephone number is (703) 305-4700.

CC
C. Craver
March 21, 2002


EDWARD F. URBAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600